



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 11 4090

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	WO 98 40483 A (HUMAN GENOME SCIENCES INC ;GREENE JOHN M (US); LI YI (US); ROSEN C) 17 September 1998 (1998-09-17) SEQ ID Nos. 26 and 96 * claims 1-23 *	1-22	C12N15/12 C12N15/11 C12N15/10 C12N15/70 C12N15/85 C12N5/10
P,X	WO 99 54460 A (SCHMITT ARMIN ;SPECHT THOMAS (DE); DAHL EDGAR (DE); HINZMANN BERND) 28 October 1999 (1999-10-28) SEQ ID No. 69 and 244; * claims 1-38 *	1-22	C12N1/21 C07K14/47 C07K16/18 C12Q1/68
P,X	WO 00 05367 A (KATO SEISHI ;KIMURA TOMOKO (JP); PROTEGENE INC (JP); SAGAMI CHEM R) 3 February 2000 (2000-02-03) SEQ ID Nos. 92, 102 and 112; * page 7, line 20 - page 40, line 10; claims 1-6 *	1-22	
E	WO 00 60076 A (HARLOCKER SUSAN L ;MITCHAM JENNIFER LYNN (US); CORIXA CORP (US); Y) 12 October 2000 (2000-10-12) SEQ ID No. 446; * claims 1-79 *	1,6,7, 15,18	TECHNICAL FIELDS SEARCHED (Int.Cl.7) C12N C07K C12Q
E	WO 01 12662 A (INCYTE GENOMICS INC ;PATTERSON CHANDRA (US); AZIMZAI YALDA (US); Y) 22 February 2001 (2001-02-22) SEQ ID Nos. 63 and 26 * claims 1-28 *	1-22	
A	WO 99 20750 A (SALAMOV ASAF ;HELIX RESEARCH INST (JP); ISOGAI TAKAO (JP); OTATOS) 29 April 1999 (1999-04-29) * the whole document * -& EP 1 026 242 A (HELIX RESEARCH INSTITUTE) 9 August 2000 (2000-08-09) * page 5, line 26 - line 55; claims 1-5 *		
-/--			
-The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22 June 2001	Examiner HORNIG H.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 03/02 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-22 partially and as far as applicable



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A	ADAMS M D ET AL: "INITIAL ASSESSMENT OF HUMAN GENE DIVERSITY AND EXPRESSION PATTERNS BASED UPON 83 MILLION NUCLEOTIDES OF CDNA SEQUENCE" NATURE,GB,MACMILLAN JOURNALS LTD. LONDON, vol. 377, 28 September 1995 (1995-09-28), pages 3-17, XP002042918 ISSN: 0028-0836 * the whole document *		
D,A	NAKAI K ET AL: "KNOWLEDGE BASE FOR PREDICTING PROTEIN LOCALIZATION SITES IN EUKARYOTIC CELLS" GENOMICS,ACADEMIC PRESS, SAN DIEGO,US, vol. 14, no. 4, 1992, pages 897-911, XP000953039 ISSN: 0888-7543 * the whole document *		
A	MARUYAMA K ET AL: "OLIGO-CAPPING: A SIMPLE METHOD TO REPLACE THE CAP STRUCTURE OF EUKARYOTIC MRNAS WITH OLIGONUCLEOTIDES" GENE,NL,ELSEVIER BIOMEDICAL PRESS. AMSTERDAM, vol. 138, 1994, pages 171-174, XP002017391 ISSN: 0378-1119 * the whole document *		TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	CARNINCI P ET AL: "High-efficiency full-length cDNA cloning by biotinylated CAP trapper" GENOMICS,ACADEMIC PRESS, SAN DIEGO,US, vol. 37, no. 3, 1 November 1996 (1996-11-01), pages 327-336, XP002081729 ISSN: 0888-7543 * the whole document *		
-/--			
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Exam. no.
THE HAGUE		22 June 2001	HORNIG H.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
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EPO FORM 1503 (03.02.02) (poc001)



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LACK OF UNITY OF INVENTION
SHEET B

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: (1-22)-partially and as far as applicable

An isolated (a) polynucleotide selected from SEQ ID No. 1, (b) a polynucleotide comprising a nucleotide sequence encoding a protein comprising the amino acid sequence SEQ ID No. 2, (c) said amino acid sequence in which one or more amino acids are substituted, deleted, inserted and/or added, wherein said protein is functionally equivalent to the protein comprising said amino acid sequence, (d) a polynucleotide that hybridizes to said polynucleotide sequence of (a), (e) a polynucleotide comprising a nucleotide sequence with at least 70% identity to the nucleotide sequence of (a); use of an oligonucleotide as a primer for synthesizing the polynucleotide sequence of clone PSEC0001 (NT2RM1000066) comprising the nucleotide sequence of SEQ ID No. 370, or the complementary strand thereof, wherein said oligonucleotide is complementary to said polynucleotide or the complementary strand thereof and comprises at least 15 nucleotides; a primer set for synthesizing polynucleotides, the primer set comprises an oligo-dT primer and an oligonucleotide complementary to the complementary strand of the polynucleotide sequence SEQ ID No. 370; a polynucleotide which can be synthesized with said primer set; a protein coding for said polynucleotide; a partial peptide of said protein; an antibody against said protein; a vector comprises said polynucleotide; a transformant expressing said vector; an antisense polynucleotide against said polynucleotide; a method of synthesizing said polynucleotide; a method for detecting said polynucleotide;

2. Claims: (1-22)-partially and as far as applicable

Idem as subject 1 but limited to nnnnnnnn; SEQ ID Nos. 3,4, and 371;

3. Claims: (1-22)-partially and as far as applicable

Idem as subject 1 but limited to PSEC0005 (NT2RM1000566) and SEQ ID Nos. 5,6 and 372;

4. Claims: (1-22)-partially and as far as applicable

Idem as subject 1 but limited to PSEC0007 (NT2RM1000634) to PSEC0265 (NT2RM3003235); (Invention 4 is limited to PSEC0007 (NT2RM1000634) respectively SEQ ID Nos. 7,8 and 373; Invention 5 is limited to PSEC0008 respectively SEQ ID Nos. 9,10 and 374; Invention 173 is limited to PSEC0265



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LACK OF UNITY OF INVENTION
SHEET B

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

(NT2RM3003235) respectively SEQ ID Nos. 349,350,540 and 679).

5. Claim : 23

A database of nucleotides and/or proteins, the database comprising information on at least one sequence selected from the nucleotides of clone PSEC0007 (NT2RM1000634) to PSEC0265 (NT2RM3003235) (SEQ ID Nos. 1,2 and 370) to NT2RP2006580 (SEQ ID Nos. 349,350,540 and 679).



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	SUZUKI Y ET AL: "Construction and characterization of a full length-enriched and a 50'-end-enriched cDNA library" GENE: AN INTERNATIONAL JOURNAL ON GENES AND GENOMES, ELSEVIER SCIENCE PUBLISHERS, BARKING, GB, vol. 200, no. 1-2, 24 October 1997 (1997-10-24), pages 149-156, XP004126489 ISSN: 0378-1119 * the whole document *		
A	JACOBS K A ET AL: "A genetic selection for isolating cDNAs encoding secreted proteins" GENE: AN INTERNATIONAL JOURNAL ON GENES AND GENOMES, ELSEVIER SCIENCE PUBLISHERS, BARKING, GB, vol. 198, no. 1-2, 1 October 1997 (1997-10-01), pages 289-296, XP004116069 ISSN: 0378-1119 * the whole document *		TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	TASHIRO K ET AL: "SIGNAL SEQUENCE TRAP: A CLONING STRATEGY FOR SECRETED PROTEINS AND TYPE I MEMBRANE PROTEINS" SCIENCE, US, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, . vol. 261, 30 July 1993 (1993-07-30), pages 600-603, XP000673204 ISSN: 0036-8075 * the whole document *		
-/--			
-The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22 June 2001	Examiner HORNIG H.
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EPO FORM 1503 03 82 (PatCat)

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	ALTSCHUL S F ET AL: "BASIL LOCAL ALIGNMENT SEARCH TOOL" JOURNAL OF MOLECULAR BIOLOGY, GB, LONDON, vol. 215, 1990, pages 403-410, XP000604562 ISSN: 0022-2836 * the whole document *		
A	PEARSON W R ET AL: "IMPROVED TOOLS FOR BIOLOGICAL SEQUENCE COMPARISON" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 85, 1 April 1988 (1988-04-01), pages 2444-2448, XP002060460 ISSN: 0027-8424 * the whole document *		
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	22 June 2001	HORNIG H.	
CATEGORY OF CITED DOCUMENTS		<p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date O : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>	
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 11 4090

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22-06-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9840483 A	17-09-1998	AU 6552198 A	29-09-1998
		EP 0973892 A	26-01-2000
		EP 1039801 A	04-10-2000
		WO 9854963 A	10-12-1998
		AU 2306499 A	05-07-1999
		EP 1040117 A	04-10-2000
		WO 9931117 A	24-06-1999
WO 9954460 A	28-10-1999	DE 19818620 A	28-10-1999
		EP 1071776 A	31-01-2001
WO 0005367 A	03-02-2000	AU 4799499 A	14-02-2000
		EP 1100898 A	23-05-2001
WO 0060076 A	12-10-2000	AU 4005200 A	23-10-2000
WO 0112662 A	22-02-2001	AU 6906800 A	13-03-2001
WO 9920750 A	29-04-1999	AU 9645598 A	10-05-1999
		EP 1026242 A	09-08-2000

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